

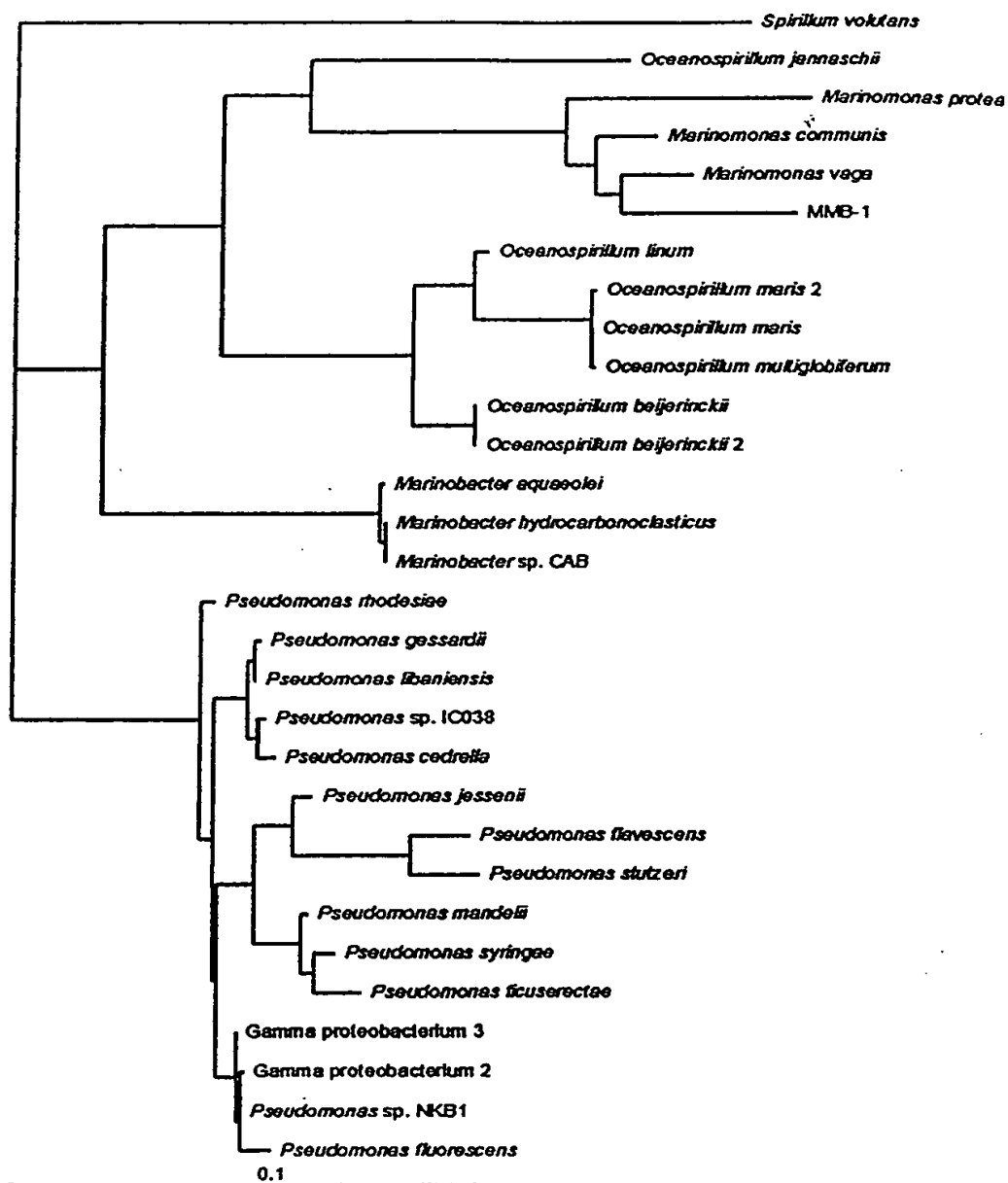
FIGURE 1

196x.seq	1	60
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	AAGTCGAGCGGTAACATTGCTAGCTTGCTAGTAAGATGACGAGCGCGGACGGGTGAGTAA	
196x.seq	121	180
Mcomm.seq	CGCGTAGGAATCTGCCTAGTAGAGGGGGACAACATGTGGAACGCGATGCTAATACCGCAT	
	CGCGTAGGAATCTGCCTAGTAGTGCGGGGACAACATGTGGAACGCGATGCTAATACCGCAT	
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	ACGCCCTACGGGGGAAAGGAGGGNN.TCTTCGGA.CCTTCGCTATTAGATGAGCCTGCG	
196x.seq	241	300
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	TGAGATTAGCTAGTTGGTGGGGTAAAGGCCTACCAAGGCGACGATCTCTAGCTGGTCTGA	
196x.seq	301	360
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	GAGGATGATCAGCCACACTGGGACTGAGACACGGCCAGACTCCTACGGGAGGCAGCAGT	
196x.seq	361	420
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196x.seq	421	480
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196x.seq	481	540
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	1021	1080
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	1141	1200
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	1201	1260
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	1381	1440
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	1441	1500
196x.seq	CTAGCTTAACCTTCGGGGATGGCGGTTACCACGGAGTGGTCAATGACTGGGGTTGAAGT	
Mcomm.seq	CTAGCTTAACCTNC..GGGATGGCGGTTACCACGGAGTGGTCAATGA.....	
	1501	
196x.seq	CTACGCG	
Mcomm.seq	.....	

Figure 1 (cont)

FIGURE 2



1 GCCCTTGCTCAGATTGAACGCTGGCGGCAGGCCT.AACACATGCAAGTCG 49  
| | | | | | | | | | | | | | | | | | | | | |  
1 ..gttagctcagattgaacgctggcggcaggccttaaacacatgcaagtgc 48

50 AGCGGT.AGAGAGAAGCTTGCTTCTCTTGA.GAGCGGCGGACGGGTGAGT 97  
| | | | | | | | | | | | | | | | | | | | | |  
49 agcggtaacaggggagcttgctcctgctgacgagcggcggacgggtgagt 98

98 AATGCCTAGGAATCTGCCTGGTAGTGGGGGATAACGTT CGGAAACGGACG 147  
| | | | | | | | | | | | | | | | | | | | | |  
99 aacgcgtaggaatctgcctagtagagggggacaacatgtggaacgcatg 148

148 CTAATACCGCATACGTCCTACGGGAGAAAGCAGGGGA..CCTTCGGGCCT 195  
| | | | | | | | | | | | | | | | | | | | | |  
149 ctaataccgcatacgccttagggggaaaggaggggactcttcggagcct 198

196 TGC GCTATCAGATGAGCCTAGGTCCGATTAGCTAGTTGGTGAGGTAATGG 245  
| | | | | | | | | | | | | | | | | | | | | |  
199 tccgctattagatgagcctgcgtgagattagctagttggtagggttaaagg 248

246 CTCACCAAGGCGACGATCCGTA ACTGGTCTGAGAGGATGATCAGTCACAC 295  
| | | | | | | | | | | | | | | | | | | | | |  
249 cctaccaaggcgacgatctctaactggtctgagaggatgaccagtcacac 298

296 TGGA ACTGAGACACGGTCCAGACTCCTACGGGAGGCAGCAGTGGGGAATA 345  
| | | | | | | | | | | | | | | | | | | | | |  
299 tgggactgagacacggcccagactcctacgggaggcagcagtggggaata 348

346 TTGGACAATGGGCGAAAGCCTGATCCAGCCATGCCGCGTGTGTGAAGAAG 395  
| | | | | | | | | | | | | | | | | | | | | |  
349 ttggacaatgggcgcaagcctgatccagccatgccgcggtgtgtgaagaag 398

396 GTCTTCGGATTGTAAAGCAC TTTAAGTTGGGAGGAAGGGTTGTAGATTAA 445  
| | | | | | | | | | | | | | | | | | | | | |  
399 gccttaggggttghtaaagcaccttccaggggtgaggaaggggtgataggttaa 448

446 TACTCTGCAATTTTGACGTTACCGACAGAATAAGCACCGGCTAACTCTGT 495  
| | | | | | | | | | | | | | | | | | | | | |  
449 tacgttatcatcttgacgttagccccagaagaagcaccgggctaactctgt 498

496 GCCAGCAGCCGCGGTAATACAGAGGGTGCAAGCGTTAATCGGAATTACTG 545  
|||||  
499 gccagcagccgcggtataacagaggggtgcaagcgtaatacgggaattactg 548  
  
546 GGCGTAAAGCGCGCGTAGGTGGTTTGTAAAGTTGGATGTGAAATCCCCGG 595  
|||||  
549 ggcgtaaagcgcgcgtaggtggtttgtaagtcggatgtgaaatcccagg 598  
  
596 GCTCAACCTGGGAAGTGCATTCAAACTGACTGACTAGAGTATGGTAGAG 645  
|||||  
599 gctcaaccttggaatggcaccgatactggctagctagagtatggtagag 648  
  
646 GGTGGTGGAAATTCCTGTGTAGCGGTGAAATGCGTAGATATAGGAAGGAA 695  
||  
649 ggggtgtggaatttcctgtgtagcgggtgaaatgcgtagatataggaaggaa 698  
  
696 CACCAGTGGCGAAGGCGACCACCTGGACTAATACTGACACTGAGGTGCGA 745  
||  
699 catcagtggcgaaggcgacaccctggactaatactgacactgaggtgcga 748  
  
746 AAGCGTGGGGAGCAAACAGGATTAGATACCCTGGTAGTCCACGCCGTAAA 795  
|||||  
749 aagcgtggggagcaaacaggattagataccctggtagtccacgccgtaaa 798

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796 CGATGTCAACTAGCCGTTGGAAGCCTTGAGCTTTTAGTGGCGCAGCTAAC 845
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
799 cgatgtctactagccgttgg..gttgtaatgacttagtgggcgagctaac 846

846 GCATTAAGTTGACCGCCTGGGGAGTACGGCCGCAAGGTTAAACTCAAAT 895
    ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
847 gcaataagtagaccgcctggggagtacggccgcaagggttaaaactcaaat 896

896 GAATTGACGGGGGCCCCGCACAAGCGGTGGAGCATGTGGTTTAATTCGAAG 945
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
897 gaattgacgggggcccgcacaagcgggtggagcatgtggtttaattcgaag 946

946 CAACGCGAAGAACCTTACCAGGCCTTGACATCCAATGAACTTTCTAGAGA 995
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
947 caacgcgaagaaccttacctactcttgacatccacagaacatttgagaga 996

996 TAGATTGGTGCCTTCGGGAACATTGAGACAGGTGCTGCATGGCTGTCGTC 1045
    | ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
997 tcagatggtgccttcgggaactgtgagacaggtgctgcatggctgtcgtc 1046

1046 AGCTCGTGTTGTGAAATGTAAGGGC..... 1070
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
1047 agctcgtgttgtgaaatgttggttaagtcccgtaacgagcgcaaccctt 1096

```

Isolate 20

10 20 30 40 50

GCCCTTGCTCAGATTGAACGCTGGCGGCAGGCCTAACACATGCAAGTCGAGC  
: : ::

*P. synx* AGAGTTTGATCTTGGCTCAGATTGAACGCTGGCGGCAGGCCTAACACATGCAAGTCGAGC  
10 20 30 40 50 60

60 70 80 90 100 110  
GGTAGAGAGAAGCTTGCTTCTCTTGAGAGCGGCGGACGGGTGAGTAATGCCTAGGAATCT  
::

GGTAGAGAGAAGCTTGCTTCTCTTGAGAGCGGCGGACGGGTGAGTAATGCCTAGGAATCT  
70 80 90 100 110 120

120 130 140 150 160 170  
GCCTGGTAGTGGGGGATAACGTTTCGGAAACGGACGCTAATACCGCATACGTCCTACGGGA  
::

GCCTGGTAGTGGGGGATAACGTTTCGGAAACGGACGCTAATACCGCATACGTCCTACGGGA  
130 140 150 160 170 180

180 190 200 210 220 230  
GAAAGCAGGGGACCTTCGGGCCTTGCGCTATCAGATGAGCCTAGGTTCGGATTAGCTAGTT  
::

GAAAGCAGGGGACCTTCGGGCCTTGCGCTATCAGATGAGCCTAGGTTCGGATTAGCTAGTT  
190 200 210 220 230 240

240 250 260 270 280 290  
GGTGAGGTAATGGCTCACCAAGGCGACGATCCGTAACCTGGTCTGAGAGGATGATCAGTCA  
::

GGTGAGGTAATGGCTCACCAAGGCGACGATCCGTAACCTGGTCTGAGAGGATGATCAGTCA  
250 260 270 280 290 300

300 310 320 330 340 350  
CACTGGAACCTGAGACACGGTCCAGACTCCTACGGGAGGCAGCAGTGGGGAATATTGGACA  
::

CACTGGAACCTGAGACACGGTCCAGACTCCTACGGGAGGCAGCAGTGGGGAATATTGGACA  
310 320 330 340 350 360

360 370 380 390 400 410  
ATGGGCGAAAGCCTGATCCAGCCATGCCGCGTGTGTGAAGAAGGTCTTCGGATTGTAAG  
::

ATGGGCGAAAGCCTGATCCAGCCATGCCGCGTGTGTGAAGAAGGTCTTCGGATTGTAAG  
370 380 390 400 410 420

420 430 440 450 460 470  
CACTTTAAGTTGGGAGGAAGGGTTGTAGATTAACTCTGCAATTTTGACGTTACCGACA  
::

CACTTTAAGTTGGGAGGAAGGGTTGTAGATTAACTCTGCAATTTTGACGTTACCGACA  
430 440 450 460 470 480

[illegible]



```

      1020      1030      1040      1050      1060      1070
GAACATTGAGACAGGTGCTGCATGGCTGTCGTCAGCTCGTGTTGTGAAATGTAAGGGC
:::
GAACATTGAGACAGGTGCTGCATGGCTGTCGTCAGCTCGTGTCGTGAGATGTTGGGTTAA
      1030      1040      1050      1060      1070      1080
GTCCCGTAACGAGCGCAACCCCTTGTCTTAGTTACCAGCACGTAATGGTGGGCACTCTAA
      1090      1100      1110      1120      1130      1140

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FIGURE 5

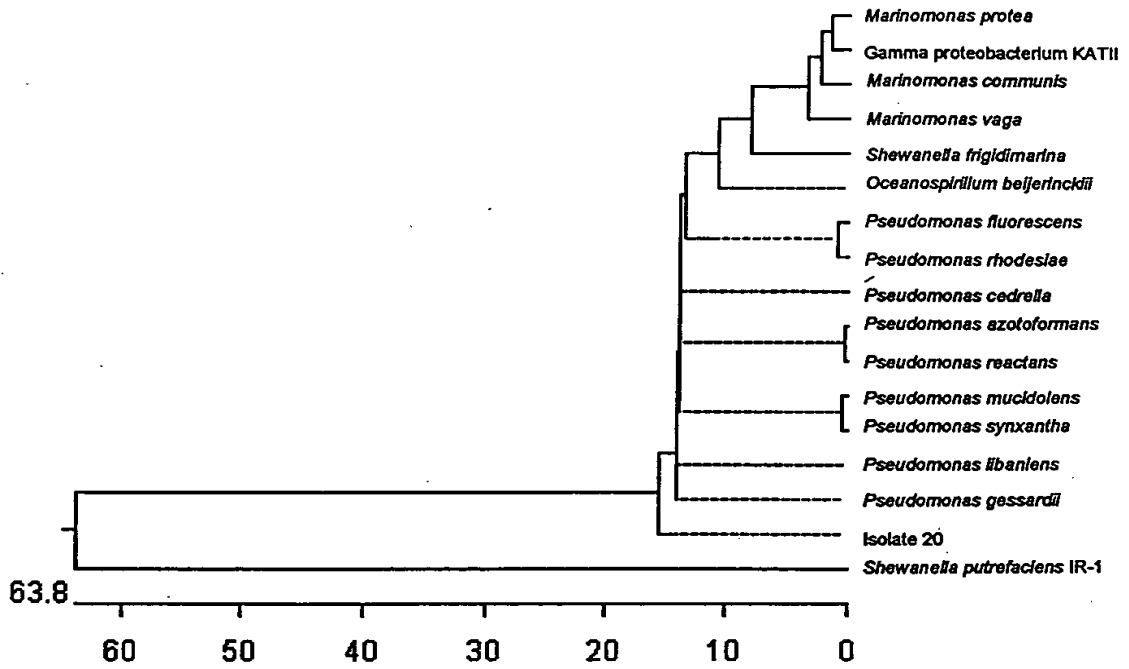


Figure 6A

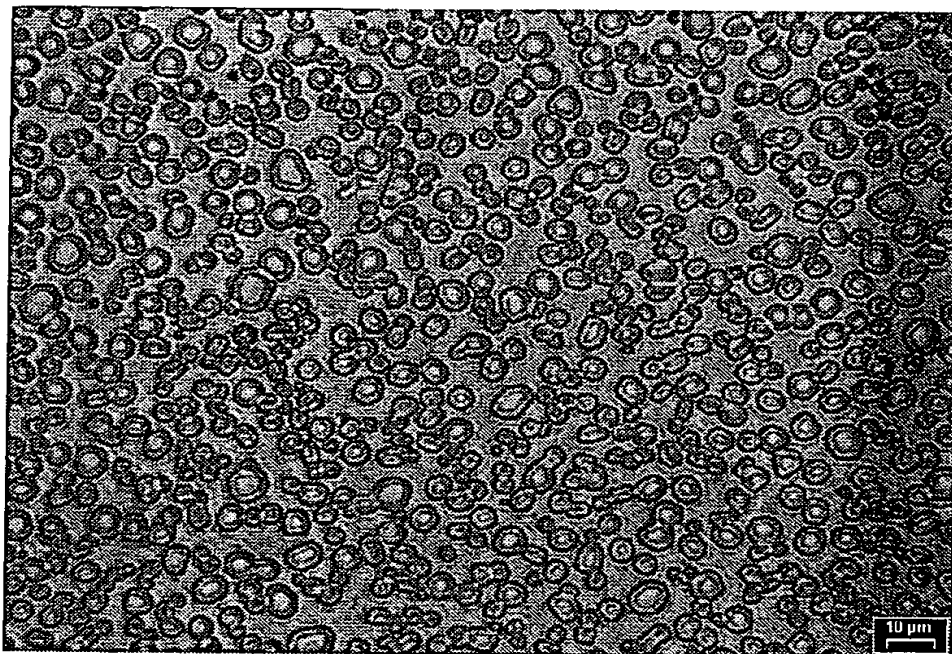


Figure 6B

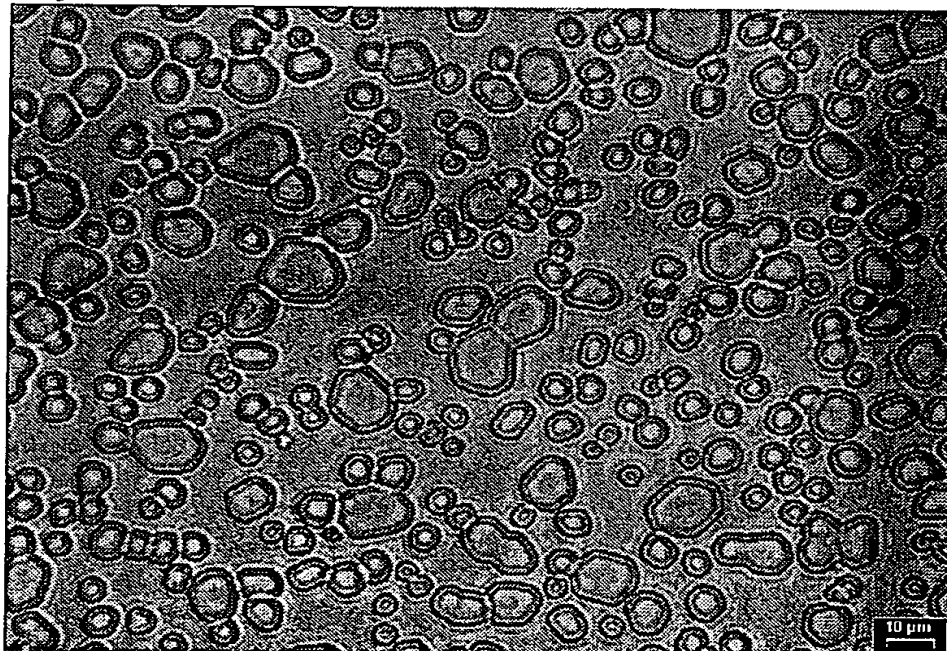


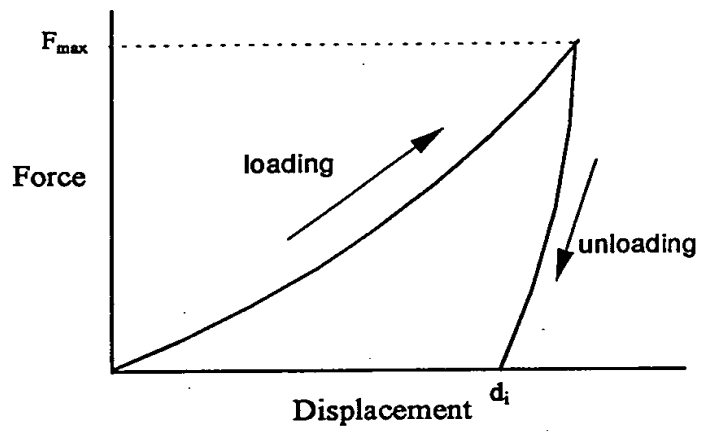
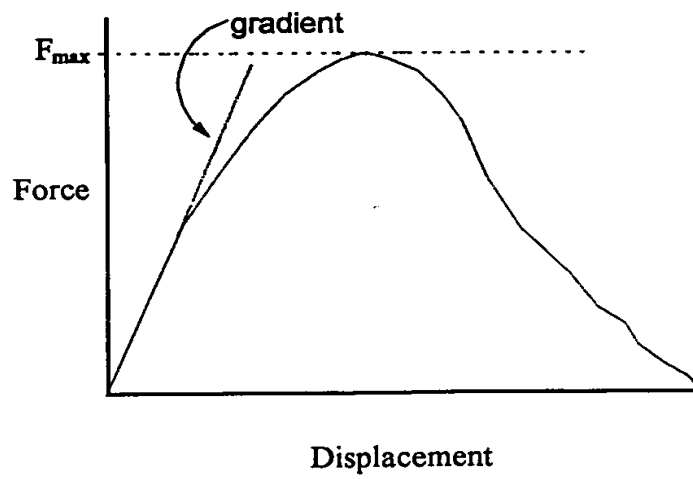
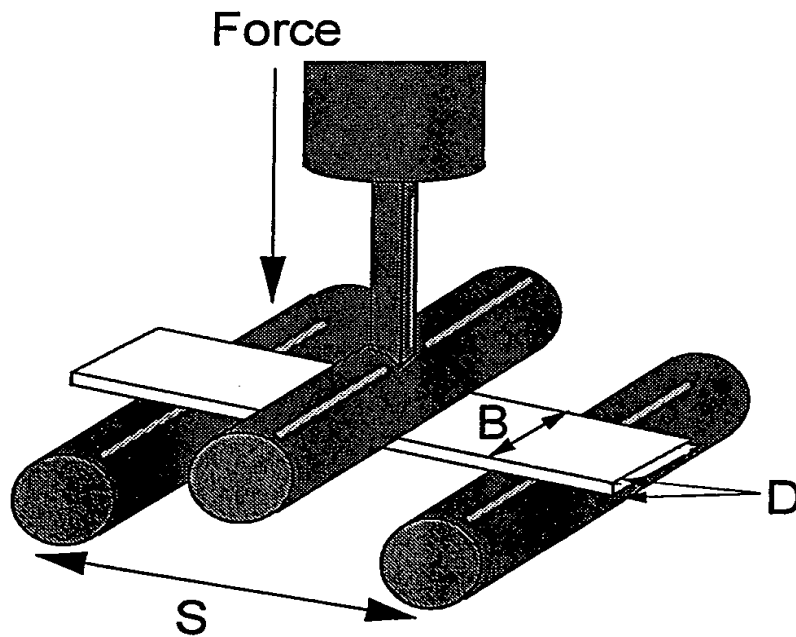
Figure 7Figure 8

Figure 9: The 3-point bend test



Span (S)	30 mm
Depth (D)	~2 mm
Width (B)	10 mm